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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,167	03/24/2004	Peter Gregorius	1406/143/2	4822
25297 JENKINS, WI	7590 05/01/2007 LSON, TAYLOR & HU		EXAM	INER
3100 TOWER		,	TU, JU	LIA P
SUITE 1200 DURHAM, NO	27707		ART UNIT	PAPER NUMBER
•			2611	
			MAIL DATE	DELIVERY MODE
			05/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/808,167	GREGORIUS, PETER	
Office Action Summary	Examiner	Art Unit	
	Julia P. Tu	2611	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	he correspondence ac	ddress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS accuse the application to become ABANI	FION. be timely filed from the mailing date of this coned (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 24 M 2a)□ This action is FINAL. 2b)□ This 3)⊠ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters		e merits is
Disposition of Claims			
 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-9,11-19 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 10 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.		
Application Papers			
9)⊠ The specification is objected to by the Examine 10)⊠ The drawing(s) filed on 24 March 2004 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)□ The oath or declaration is objected to by the Ex	a) \boxtimes accepted or, b) \square object drawing(s) be held in abeyance. ion is required if the drawing(s)	See 37 CFR 1.85(a). s objected to. See 37 C	FR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Appl rity documents have been rec u (PCT Rule 17.2(a)).	ication No ceived in this National	Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/M	mary (PTO-413) ail Date mal Patent Application	·

Application/Control Number: 10/808,167

Art Unit: 2611

DETAILED ACTION

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).
- 1. The disclosure is objected to because of the following informalities:

"The master delay locked loop (MDU)" should be "The master delay locked loop (M-DLL)".

Application/Control Number: 10/808,167

Art Unit: 2611

2. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Appropriate correction is required.

Claim Objections

3. Claim 10 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claims 1-9. See MPEP § 608.01(n). Accordingly, the claim 10 has not been further treated on the merits.

Allowable Subject Matter

4. Claims 1-9, 11-19 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The present invention comprises a feed forward equalizer for analog equalization of a data signal received over a data transmission channel comprising: (a) a Master Delay Locked Loop for generating equidistant reference phase signals; (b) a Slave Delay Line formed by serial connected Slave Delay Units, wherein each Slave Delay Unit has a Slave Delay Element to delay the received data signal with a predetermined delay time and an analog amplifier which amplifies the delayed output signal of the Slave Delay Element with a respective weighting coefficient to generate a weighted delay signal, wherein the analog amplifier is switched transparent in response to a corresponding reference phase signal generated by said Master Delay Locked

Application/Control Number: 10/808,167

Art Unit: 2611

Loop; and (c) subtracting means for subtracting the weighted delay signals which are selected by means of a multiplexer from the received data signal to generate an equalized output data signal. There are many prior arts that disclose a feed forward equalizer for analog equalization of a data signal received over a data transmission channel; however, those prior arts fail to teach a the analog amplifier is switched in response to a corresponding reference phase signal generated by Master Delay Locked Loop.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julia P. Tu whose telephone number is 571-270-1087. The examiner can normally be reached on 7:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Art Unit: 2611

USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

J.T. 04/23/2004

CHIEH M. FAN
SUPERVISORY PATENT EXAMINER